Small
Business
Innovation
Research

Smart Eyes: A New Robotic Vision System

Triangle R&D Corporation
Research Triangle Park, NC

INNOVATION

Determine position and orientation of bar code target using machine vision system.

ACCOMPLISHMENTS

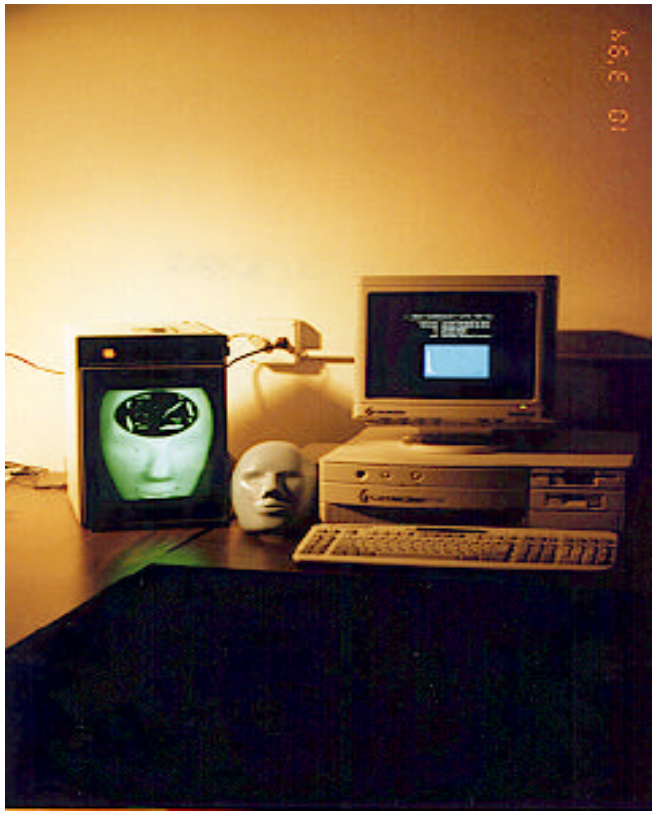
- Developed software and algorithms to determine position and orientation of bar code target.
- Developed special target label.
- Developed software to control robot actions based on vision system input.

COMMERCIALIZATION

- U.S. DOT SBIR Phase I & II built on this technology to develop a vision system to assess Soft Tissue Damage Assessment System (STDAS) - $324K.
- Sales to date - $200K
- Licensed technology to First Technology Safety Systems (largest producer of crash dummies) to evaluate laserations and contusions in simulated car crashes

GOVERNMENT/SCIENCE APPLICATIONS

- Space applications include robotic assembly of Space Station.
- Injury potential research tool for quantifying soft tissue damage potential.
- Warehousing and parts inventory.



Soft Tissue Damage Assessment System (STDAS)

Goddard Space Flight Center

1987 Phase 2, SS021, 3/3/98

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